

Winter Weather

Your Preparedness

Winter 2011/2012

**Indiana Winter Weather Preparedness Week is
November 13-19, 2011**

Governor Mitch Daniels has proclaimed November 13-19, 2011 as Winter Weather Preparedness Week in Indiana.

As cold and snow begin in earnest across Indiana, the National Weather Service (NWS), Indiana Department of Homeland Security (IDHS), Indiana Department of Transportation (INDOT), Indiana State Police (ISP), American Red Cross and the Indiana Department of Education (INDOE) are encouraging Hoosiers to begin preparing now for what could be a long, cold winter. Preparedness Week is your reminder that you need to be ready for the hazards winter brings.

Officials from each organization will be available for interviews to help you better understand the outlook for this winter, what preparation plans are being made, and how citizens can be ready.

Winter 2010-2011 In Review

The winter of 2010-2011 was colder and snowier than normal across the entire Hoosier State. A moderate to strong La Nina coupled with a strongly negative North Atlantic Oscillation (NAO) altered weather patterns and allowed a trough of low pressure to persist over the eastern United States for most of the winter. This trough allowed for frequent cold air pushes into the Great Lakes region.

December set the tone for the winter with above normal snowfall and below normal temperatures. Several storm systems dropped accumulating snow across the state in the first half of the month. As cold air poured in for the middle of the month, a lake effect snow band set up over LaPorte county which dropped 30 inches of snow over a two day period. This cold airmass caused temperatures statewide to never rise above freezing for more than a week. The end of the month brought the 4th warmest New Years Eve on record in Indianapolis with a high temperature of 61 degrees. Even with a warm end to the month Indianapolis ended the month 6.2 degrees below normal.

The warm beginning to the new year was short lived as high temperatures plummeted from mid 50s on the 1st into the upper 20s by the second. The rest of the month remained trapped in the cold air and most locations ended 2 to 3 degrees below normal. A few Alberta Clipper systems dropped three to six inches of snow across the state which attributed to above normal snowfall across the entire state. On January 7-8 an intense single band of snow dropped a record breaking 36.7 inches on South bend. An incredible 19 inches of snow was measured in just 4 hours, with 8 inches falling in just one of those hours.

There was a strong temperature contrast between northern and southern Indiana for much of February. Temperatures ended a few degrees above normal in southern Indiana and a few degrees below normal in northern Indiana. Snowfall was once again above average everywhere except far southern Indiana. The "Chicago Blizzard" brought high winds to the Midwest and over a foot of snow to areas of northern Indiana. Areas further south experienced mostly sleet with a few reports of up to four inches of sleet accumulation. Blowing and drifting snow stranded motorists on Lakeshore Drive in Chicago as 20 inches of snow and winds up to 70 mph made driving impossible.

What will the 2011-2012 Winter hold in store? This winter's outlook is on Page 2!



Over 30 inches of lake effect snow fell in LaPorte County in mid December 2011.

Photo provided by Lori Barrett

Winter 2011/2012

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Contacts

[David Tucek](#), NWS Indianapolis
(317) 856-0361 x726

[Mike Lewis](#), NWS Northern Indiana
(574) 834-1104 x726

[Jim Allsopp](#), NWS Chicago
(815) 834-0600 x726

[Joe Sullivan](#), NWS Louisville
(502)969-8842 x726

[Ricky Shanklin](#), NWS Paducah
(270) 744-6440 x726

[Mary Jo Parker](#), NWS Wilmington
(937) 383-0031

[IDHS](#)
(317) 232-3980

[Will Wingfield](#), INDOT
(317) 233-4675

[Carol Greeley](#), American Red Cross
(317) 684-4351

[Dave Bursten](#), Indiana State Police
(317) 502-6220

[Dave Woodward](#), INDOE
(317) 232-6975

A full color version of this publication is available online at: www.weather.gov/iwx

Winter Weather

Your Outlook

Winter 2011/2012

Winter 2011-2012 Outlook

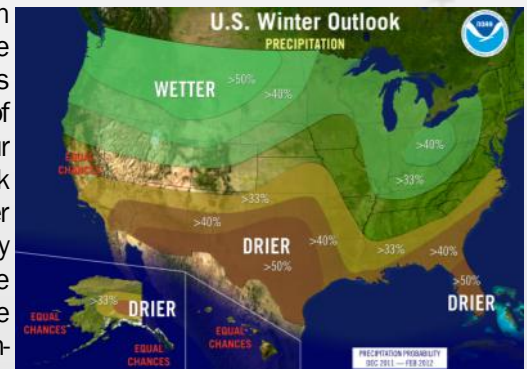


December-February temperature outlook show an increased probability of cooler than normal conditions for northern Indiana. And equal chances for a cool or warm winter in the rest of Indiana.

What will this upcoming winter season bring to the Hoosier state? The official outlook issued by the Climate Prediction Center (CPC) is calling for above normal probability of below normal temperatures and above normal precipitation. What does this mean exactly?

The CPC uses a combination of techniques to derive their forecasts, which includes looking at active states of the Earth's atmosphere and oceans as well as statistical analysis tools and trends in the historical data. The outlook maps provide a probability forecast based on the analysis. Equal chances (EC) indicate that an area has a 33.3 percent chance of experiencing above normal, near normal, or below normal temperatures or precipitation. The EC category is often used when there is no strong signal as to what may occur. When an area on the map is shaded as having a higher probability of above or below normal conditions, it does not necessarily mean those conditions will occur, but it means the probabilities are higher for its occurrence. Temperature and precipitation forecasts for Indiana suggest odds favoring below normal temperatures in the northern part of the state and above normal precipitation for the entire state.

This winter, a weak to moderate to [La Nina](#) (a cooling of the equatorial Pacific Ocean waters), is expected, and the atmosphere often responds in a somewhat predictable manner, which helps to guide the CPC forecast. A La Nina's impact on Indiana varies considerably depending on its strength. Given the uncertainty of the eventual strength of this winter's La Nina, there is some uncertainty in this winter's long range outlook for our region. Regardless of the intensity, when a La Nina is occurring, the favored storm track for weather systems is across the lower Midwest. As a result of this path for weather systems, the Great Lakes and Ohio Valley regions tend to be right in the path of many weather systems, often receiving the brunt of their precipitation. It is important to note that La Nina is not the only factor to affect our winter weather. Other factors such as the [NAO \(North Atlantic Oscillation\)](#) and [AO \(Arctic Oscillation\)](#) can have an even greater impact, but can only be forecast a few weeks in advance with any reasonable skill. Always check for the latest updates, which are issued near the beginning and middle of each month. CPC outlooks are available at <http://www.cpc.noaa.gov>.



December-February precipitation outlook suggests wetter than normal conditions for Indiana.

WINTER WEATHER TERMS...WHAT TO LISTEN FOR

Hazardous Weather Outlook — will be issued to alert the public of the potential for hazardous winter weather. This outlook will be issued daily and will provide weather information through the next 7 days.

Winter Storm Watch — alerts the public to the possibility of a blizzard, heavy snow, heavy freezing rain, or heavy sleet. Winter Storm Watches are usually issued 12 to 48 hours before the beginning of a winter storm.

Winter Storm Warning — issued when hazardous winter weather in the form of heavy snow, heavy freezing rain, or heavy sleet is imminent or occurring. Winter Storm Warnings are usually issued 12 to 24 hours before the event is expected to begin.

Ice Storm Warning - An Ice Storm Warning is issued when significant and damaging ice accumulations (usually one quarter inch or more) are expected.

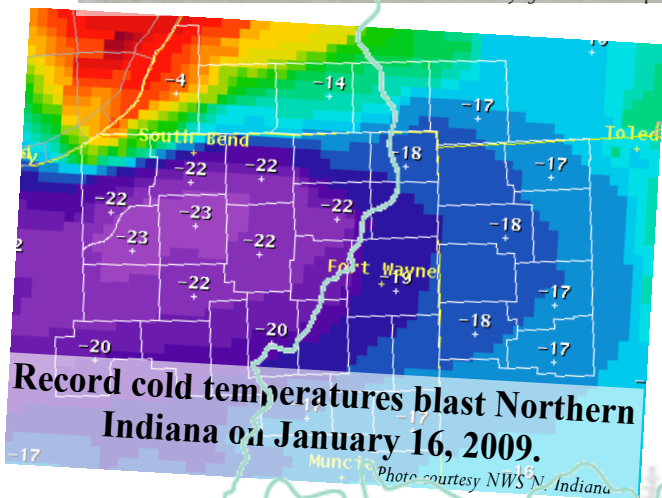
Advisories — issued for winter weather events that are hazardous, but not severe enough to warrant a warning. Advisories may be issued for: snow and/or blowing snow, lake effect snow, freezing rain, freezing drizzle, wind chill, wind, and dense fog.

Winter Weather

Severe Weather

Winter 2011/2012

Winter brings more than just snow. . .



Winter Weather

Your Needs

Winter 2011/2012



**American
Red Cross**

Be Red Cross Ready

Get A Kit. Make A Plan. Be Informed.

Emergency Preparedness Kit for your home

- * Food and water for 3 days (1 gallon of water per person per day)
- * Flashlights and extra batteries
- * Battery-powered or hand-crank radio (NOAA Weather Radio, if possible)
- * First aid kit
- * Medications (7-day supply) and medical items
- * Multi-purpose tool
- * Sanitation and personal hygiene items
- * Copies of personal documents
- * Cell phone with chargers
- * Family and emergency contact information
- * Extra cash
- * Emergency blanket
- * Baby and Pet supplies



Stay safe and warm at home

- * Have extra blankets on hand.
- * Use only portable heating equipment approved for indoor use and monitor it closely, especially around children. Turn it off and unplug if you leave or go to bed.
- * Keep combustible materials (clothing, furniture, drapes, etc.) at least three feet from the heat source. Never drape clothes over a space heater to dry.
- * Do not use a stove or oven to heat rooms.
- * Don't overload electrical circuits.

For more information, visit
www.indyredcross.org/brcr/wintersafety.aspx

NOAA All Hazards Radio

Keep ahead of the storm by listening to NOAA Weather Radio for the latest winter storm watches, warnings, and advisories. In addition to routine broadcasts, the Specific Area Message Encoding (SAME) feature of NOAA Weather Radio activates the Emergency Alert System (EAS). EAS is used to provide notification of emergencies to the public. Blizzard and most other winter warnings will be distributed through the EAS.



Did You Know?

Special needs NOAA Weather Radios designed to meet the needs of the hearing impaired are available.

For more information, visit the NOAA Weather Radio Web Site at:

<http://www.nws.noaa.gov/nwr>

For Special Needs NOAA Weather Radio information, visit:

<http://www.nssl.noaa.gov/edu/safety/specialneeds.html>

Winter Weather

Your Plans

Winter 2011/2012

Winter Weather Preparedness For Schools

Gathering information

- ★ *Know where to get weather information:* Utilize NOAA Weather Radio, local Media sources, Internet, and paging services.
- ★ *Know how and where to get road information:* State Highway Departments or Law Enforcement are often your best sources for road conditions. City and county transportation or school officials, and drivers or security teams are also excellent sources.

Alerting students and staff

- ★ *Alert students and staff to take action:* Use mobile communications for bus drivers, and a PA system for school staff and students.

Activating plan

- ★ *Determine when to activate plan:* Gather information about the type of winter storm, expected impact, and time of impact on the school district. The primary decision will be whether to cancel, delay, or hold classes as usual. In Watch situations, immediate action will usually not be required. When a Warning or Advisory is issued, assess the weather situation by monitoring NWS forecasts, current weather conditions, and road conditions.

Canceling or Delaying Classes

- ★ *Determine when to cancel or delay classes:* How much time do you have before the storm impacts the area? Not only must students be transported to school safely, but also back home via bus, car, or on foot. What kind of an impact will the storm make? Will roads be impassable, or will road conditions just have a minimal effect on transportation of students, causing only small delays?

School Bus Driver Actions

- ★ *For heavy snow or blowing and drifting snow:* Be familiar with alternate routes, stay up to date on the latest forecast, and maintain communication with school officials.
- ★ *For ice storms:* Remain alert for downed trees, utility lines, and other road hazards. Be familiar with alternate routes. Stay up to date on the forecast and maintain communication with school officials.
- ★ *Extreme cold:* Learn to recognize and treat symptoms of hypothermia and frostbite.

Safety Instruction

- ★ *Educate school staff and students:* Conduct drills and hold safety programs annually.
 - ★ Participate in Winter Weather Preparedness Week campaigns.
 - ★ Contact your local Emergency Manager or National Weather Service Office for a speaker to discuss winter weather safety.



Winter weather
claims nearly 100
lives annually.

Winter Injuries

Related to ice and snow:

- ★ About 70% occur in automobiles
- ★ About 25% are people caught out in the storm
- ★ Majority are males over 40 years old

Related to exposure to cold:

- ★ 50% are people over 60 years old
- ★ Over 75% are males
- ★ About 20% occur inside the home



Winter Weather

Your Driving

Winter 2011/2012

Winter Safety Tips for the Vehicle

Winter-wise Driving Tips

- Pay attention to weather reports on the radio. Allow time in your schedule for bad weather and/or traffic delays.
- Become familiar with your vehicle's winter weather operating characteristics. Front-wheel drive vehicles generally handle better than rear-wheel vehicles on slippery roads because the weight of the engine is on the drive wheels, improving traction.
- Keep your windows clear of snow and ice. Remember to clean head, tail and brake lights.
- If you need to turn on your wipers, you need to turn on your headlights.
- Bridges become slick and icy before roads. Bridge temperatures can be five to six degrees colder than roadways, so drive with extreme caution during freezing temperatures.
- Keep your gas tank at least half full. Fill the tank before you park for lengthy periods. This will help prevent fuel line freeze-up.
- Leave ample stopping time between you and the vehicle in front of you. Braking distance can be up to nine times greater on snowy, icy surfaces than on dry roads.
- If your vehicle is equipped with an Anti-lock Braking System (ABS), be sure to: STOMP firmly – depress the brake pedal. STAY on the brakes – do not pump the brakes. STEER where you want the vehicle to go.
- Gently pump non-ABS brakes to stop the vehicle. Take any corrective action gradually. You need to maintain full control of the vehicle. Refer to the vehicle operations manual for proper methods to correct skids.
- During winter travel, it is best to supply those at your destination with the following information: your cell phone number, departure time, travel route and anticipated arrival time.
- Lock your vehicle, even in bad weather. If locks freeze, heat the key. Do not pour hot water on the locks – they will refreeze.
- Stay with your vehicle while warming it up. An unattended, running car invites theft.



Survival Tips if Stranded

The best advice is to remain with the vehicle. If nothing else, you are guaranteed shelter.

Other helpful tips include:

- Tie a bright colored cloth (handkerchief, towel, etc.) to the vehicle's antenna, driver door handle or outside mirror.
 - Keep the exhaust pipe clear of snow. Poisonous gases can filter into the vehicle if the pipe is clogged.
 - Run the engine and heater no more than 10 minutes every hour, leaving a downwind window slightly open for ventilation while the engine is running.
 - Light a flare or turn on a flashlight to let others know you're stranded in the vehicle.
 - Use floor mats, seat covers and blankets for added warmth. If you must leave your vehicle during a severe snow storm or blizzard, secure a line of rope or cord to yourself and the vehicle to avoid becoming lost or disoriented.
- Keep bottled water in your emergency kit of vehicle. Never eat snow. It will chill you and lower your body temperature.
 - Remain calm. Chances for rescue are better if you remain calm and in your vehicle.

For more information on winter safety tips for the vehicle, visit the INDOT website at www.in.gov/indot/2439.htm, or the IDHS website at: www.getprepared.in.gov

Winter Weather

Your Travel

Winter 2011/2012

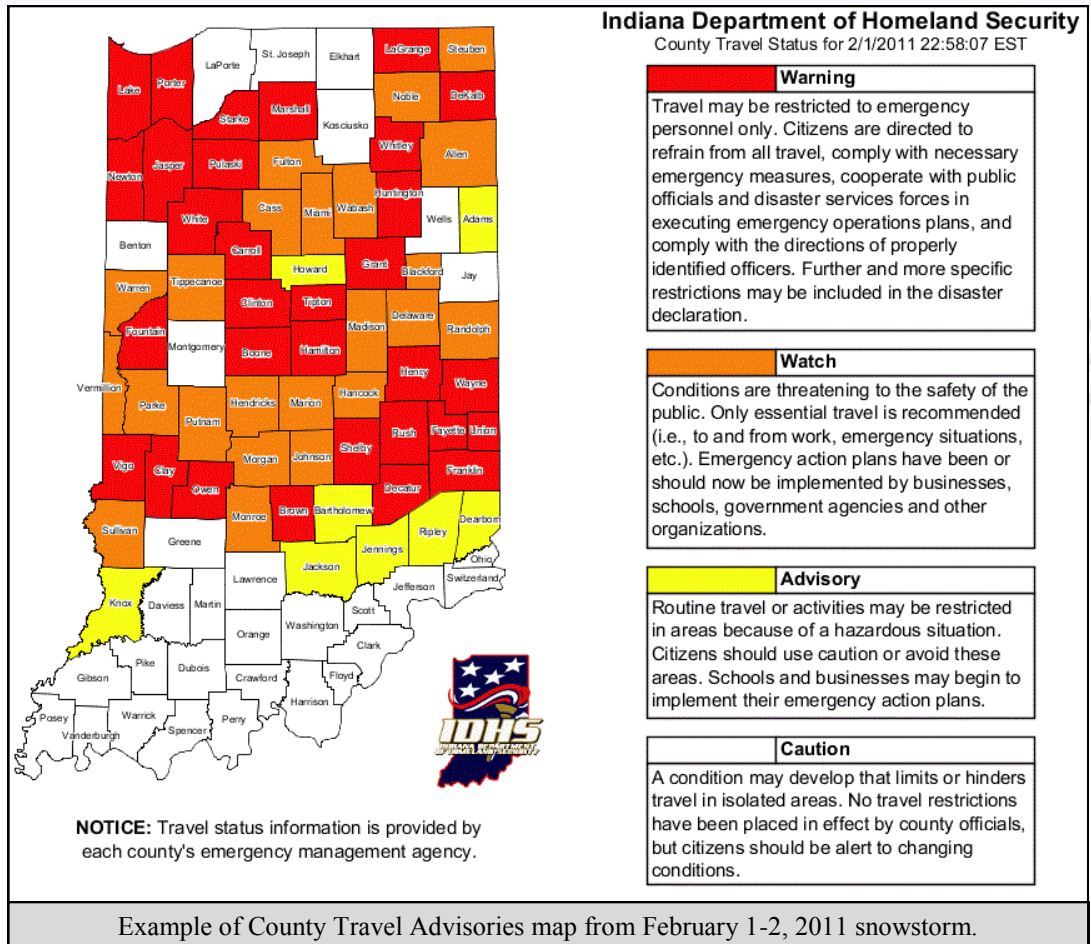
Indiana County Travel Advisories Map

Indiana has updated its travel advisory statutes to a three tiered system statewide.

All counties in Indiana will be following the same guidelines for travel advisories, under a new state law.

The first level is a **travel advisory**, which tells drivers whether conditions may make travel difficult. The second level will be a **travel watch**, which permits only essential travel on the roadways. And the highest level is a **travel warning**, which means travel is forbidden under most circumstances.

The new law removes language for warning levels of 1, 2, 3, which varied in meaning from county to county and thus makes for more unified terminology this year.



County Travel Advisories Map website

www.in.gov/dhs/files/travel-advisory-map/

INDOT TrafficWise website:

<http://indot.carsprogram.org/main.jsf>

Winter Weather

Your Vehicle

Winter 2011/2012

How to winterize your vehicle

Check tire pressure and tread depth. Consult your owner's manual for advice. Look for uneven wearing which can also be dangerous. Also, be sure to check the spare tire and make sure the jack is operating properly.

Check battery, exhaust system, heater and defroster. Make sure the battery is not past its lifespan, and that the terminals are tight and free of corrosion. Hoses and belts should be inspected for cracks. Now is the time to discover if your heater is broken - not when the temperature drops.

Check antifreeze. Make sure that a 50 percent anti-freeze, 50 percent water mixture is at the proper radiator level. If the coolant is two years old, get it flushed and refilled.

Change oil every 3,000-5,000 miles. Consider using a lighter, "winter weight" oil. Refer to your owner's manual for guidance.

Check windshield wipers and blades: Replace the blades twice a year and make sure extra WINTER wiper fluid is on hand.

Ensure the four-wheel drive system and brakes are functioning properly.

It is a good idea to keep at least a half tank of gas in your car at all times during the winter months, to keep the fuel lines from freezing. Even with the best maintenance and cautious driving, snow, ice and freezing temperatures can sometimes still get the best of your vehicle. Hazardous winter driving conditions induce crashes, which are the leading cause of death during winter storms. Being prepared to handle potential slide-offs, crashes, and car trouble in winter is a simple but crucial step to take in preparing for the next few months.



Prepare an emergency kit for your vehicle

- ☐ At least two blankets or a sleeping bag
- ☐ Flashlight or battery-powered lantern and extra batteries
- ☐ Booster (jumper) cables
- ☐ Emergency flares
- ☐ Extra clothing, particularly boots, hats and mittens
- ☐ A steel shovel and rope to use as a lifeline
- ☐ Bottled water or juice and nonperishable high-energy foods (granola bars, raisins, nuts, peanut butter or cheese crackers)
- ☐ Thermos or container that won't allow liquids to freeze
- ☐ First-aid kit and necessary medications
- ☐ Sand or non-clumping cat litter for tire traction if your vehicle gets stuck in snow or ice
- ☐ A cell phone charger which can be adapted to vehicle use
- ☐ Ice scraper and snow brush
- ☐ Tire repair kit and pump
- ☐ Candle, matches, heat sticks/packs, lighters, hand-warmers, etc. (Be sure to crack the window if you using a heat source inside the



Winter Weather

Your Safety

Winter 2011/2012

According to the National Fire Protection Association, in 2008, heating equipment was the second leading cause of home fires in the United States.

Among fatal home heating fires, the leading factor contributing to the ignition of the fires was heating equipment stationed too close to flammable materials.

Tips for safe alternative heating

- Keep all flammable materials at least three feet away from heating equipment.
- Regular cleaning and annual inspections by a professional chimney sweep will help keep a fireplace free from obstructions and creosote which was the leading factor contributing to home heating fires between 2004 and 2008 according to the National Fire Protection Association (NFPA).
- Use only paper or kindling wood, not a flammable liquid, to start a fire.
- Use only dry, seasoned wood in a fireplace or wood stove to avoid the buildup of creosote. Do not use artificial logs in wood stoves.
- If using a gas fireplace, ensure the fireplace vents properly and that there is a functioning carbon monoxide detector in the room.
- Keep fire extinguishers on hand and know how to use them.



Space heater safety

- When buying a new space heater, make sure it carries the mark of an independent testing laboratory and is legal for use in your community.
- Use the proper grade of fuel for your liquid-fueled space heater and never use gasoline in any heater not approved for gasoline use.
- Refuel space heaters only in a well ventilated area and when the equipment is cool.
- Plug power cords only into outlets with sufficient capacity and never into an extension cord.
- Turn off space heaters whenever the room they are in is unoccupied.
- Turn off space heaters when you go to bed each night to avoid knocking them over in the dark.

Tips for reducing heating costs

- Make sure your home is properly insulated.
- Caulk and weather strip doors and windows to keep out cold air.
- Install a programmable thermostat and set it to lower the temperature at night and whenever the house is unoccupied.
- Keep doors and windows closed as much as possible, including overhead doors on attached garages.
- Insulate the pipes around the water heater with inexpensive, easy-to-install pipe insulation.
- Always unplug holiday lights before going to bed or leaving the house.

For more information about winter heating safety, visit www.getprepared.in.gov. For additional emergency efficiency and money saving tips contact your local utility company or visit: www.energysavers.gov.

Winter Weather

Your Health

Winter 2011/2012

With a wind chill temperature of minus 50°F, frostbite will occur within 10 minutes.

At minus 30°F, frostbite will occur within 30 minutes.

Frostbite

Frostbite is damage to body tissue caused by extreme cold. Frostbite causes a loss of feeling and a white or pale appearance in extremities, such as fingers, toes, ear lobes, or the tip of the nose. If symptoms are detected, get medical help immediately! If you must wait for help, slowly re-warm the affected areas. However, if the person is also showing signs of hypothermia, warm the body core before the extremities.

Hypothermia: Low Body Temperature

Warning Signs - Uncontrollable shivering, memory loss, disorientation, incoherence, slurred speech, drowsiness, and apparent exhaustion.

Detection - Hypothermia occurs when the body temperature drops below 95°F. If a person's temperature is below 95°F, seek medical care immediately! If medical care is not available, begin warming the person slowly. Warm the body core before the extremities (arms and legs)! Warming the arms and legs first drives cold blood toward the heart and can lead to heart failure. If needed, use your own body heat to help. Get the person into dry clothing and wrap them in a warm blanket, covering the head and neck. **Do not give the person alcohol, drugs, coffee, or any hot beverage or food; warm broth is better.**

WIND CHILL CHART

Temperature (°F)

Wind (mph)	Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	
	5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63	
	10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72	
	15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77	
	20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81	
	25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84	
	30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87	
	35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89	
	40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91	
	45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93	
	50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95	
	55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97	
	60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98	
	FROSTBITE OCCURS IN:								30 minutes		10 minutes		5 minutes							

Winter Weather

Your Actions

Winter 2011/2012

When Caught in a Winter Storm

At Home or in a Building

Stay inside. When using alternative heat from a fireplace, wood stove, space heater, etc., use fire safeguards and ventilate properly.

If you have no heat:

- * Close off unneeded rooms.
- * Stuff towels or rags in cracks under doors.
- * Cover windows at night.

Eat and drink. Food provides the body with energy for producing its own heat. Keep the body replenished with fluids to prevent dehydration.

Wear layers of loose-fitting, light-weight, warm clothing. Remove layers to avoid overheating, perspiration, and subsequent chill.

In a Car or Truck

Stay in your vehicle. Disorientation occurs quickly in wind-driven snow and cold.

Run the motor about ten minutes each hour for heat:

- * To avoid carbon monoxide poisoning, open the window a little for fresh air.
- * Make sure the exhaust pipe is not blocked.

Be visible to rescuers:

- * Turn on your dome light at night when running the engine.
- * Tie a colored cloth (preferably red) to your antenna or door.
- * After snow stops falling, raise the hood to indicate you need help.

Exercise from time to time by vigorously moving arms, legs, fingers, and toes to keep blood circulating and to keep warm.

Outside

Find shelter:

- * Try to stay dry.
- * Cover all exposed parts of the body.

If no shelter:

- * Prepare a lean-to, windbreak, or snow cave for protection from the wind.
- * Build a fire for heat and to attract attention.
- * Place rocks around the fire to absorb and reflect heat.

January 26-28, 2009

A major storm system dumped over a foot of snow in central and southern Indiana and upwards to one inch of ice along and south of the Ohio River. The ice brought down thousands of trees and power lines, leaving thousands of homes and businesses without power.

January 7-8, 2011

A record breaking lake effect snow event dropped 3 feet of snow on South Bend, IN with 8 inches in one hour and 19 inches in 4 hours. A widespread area of 1-2 feet of snow occurred in the surrounding counties.

February 1-2, 2011

The "Chicago Blizzard" brought over a foot of snow to many locations in Northern Indiana, 1.5 inches of freezing rain and sleet to central Indiana, and winds greater than 50 mph across the entire state. Drivers were stranded on Lakeshore Dr. in Chicago where over 20 inches of snow fell.

National Weather Service

Northern Indiana

7506 E 850 N

Syracuse, IN 46567



Winter Weather Preparedness Week Material
OPEN IMMEDIATELY!

Internet Sites

National Oceanic and Atmospheric Administration (NOAA)

<http://www.noaa.gov>

National Weather Service

<http://www.weather.gov>

National Weather Service Indianapolis

<http://www.weather.gov/ind>

National Weather Service Northern Indiana

<http://www.weather.gov/iwx>

National Weather Service Louisville

<http://www.weather.gov/lmk>

National Weather Service Paducah

<http://www.weather.gov/pah>

National Weather Service Chicago

<http://www.weather.gov/lot>

National Weather Service Wilmington

<http://www.weather.gov/iln>

NWS Office of Meteorology Winter Weather Page

<http://www.nws.noaa.gov/om/winter>

NOAA Weather Radio

<http://www.nws.noaa.gov/nwr>

Climate Prediction Center

<http://www.cpc.noaa.gov>

Federal Emergency Management Agency

<http://www.fema.gov>

Ready America

<http://www.ready.gov/>

Be Red Cross Ready

<http://www.indyredcross.org/BRCR>

Indiana Department of Homeland Security

<http://www.in.gov/dhs/>

Indiana Department of Transportation

<http://www.in.gov/indot/>

Indiana State Police

<http://www.in.gov/isp/>

Indiana Department of Education

<http://www.doe.in.gov/>



American
Red Cross

